

Experience

Federal Technical Consultant

IBM, Rocket Center, WV / Sept 2022 – Current

- Implementing industry-scale solutions for government agencies
- Consulting on AWS methodologies to reduce costs and improve efficiency
- Implementing OCR model in Veterans Affairs systems to automate data intake and decrease turnaround time for action taken on new information
 - Created multiple automations to reduce human-in-the-loop model training tasks by 45%
 - Wrote scripts to automate otherwise manual training data modification tasks
 - Built web-based tool to allow for tighter collaboration among team members working on different project requirements

Software Research Assistant @ Security and Cryptography Lab

UC San Diego, La Jolla, CA / Oct 2021 – Sept 2022

- Designed and implemented technical solutions for software development problems
- Worked in a team to conduct a full end-to-end study using Google Cloud Platform
- Mentored high school student researcher

Instructional Apprentice

UC – San Diego, La Jolla, CA / Jan 2022 – March 2022

- Held office hours to help students
- Help write and grade test questions

Online Instructor

iD Tech, Katy, TX / Apr 2021 – Oct 2021

- Taught multiple week-long courses in programming languages (Java, JavaScript, Python, C++)
- Incorporated visual design and in-game programming

Research and Personal Projects

[Sortle](#) | Guessing game involving sorting algorithms. Created serverless backend to handle profile management. Stored profiles using AWS DynamoDB.

Tools: Angular, NPM, NodeJS, AWS DynamoDB, Bash

[SpamStudy](#) | Used modified web scraper to obtain information about spam email for research purposes. Designed custom machine learning classification model to classify emails.

Tools: web design, JavaScript, Python, ReactJS

[AndroidSecurity](#) | Created security framework for study design. Assisted in creating of tool design process.

Tools: mallodroid, Androguard, Python, OOP, selenium

[PreReq](#) | Used web scraper to obtain data from all course listings to provide an easy-access search bar.

Tools: crontab, web design, shell scripting, JavaScript, Python

[NotionExt](#) | Tools that interact with Notion, Apple Calendar, Apple Notes, and import/export with Notion.

Tools: crontab, Notion API, NodeJS, JavaScript, Python, AppleScript

[ParkingSystem](#) | Website for students to pay for and choose parking spots at Cinco Ranch High School.

Tools: PHP, MySQL, CSS, JavaScript

Education

University of California – San Diego | Sept 2022

Bachelor of Science (B.S.) Cognitive Science – Machine Learning and Neural Computation

Skills

Java, C, C++, SQL, Python, NodeJS, jQuery, ReactJS, Angular, Bash, Linux, Git, OOP, AWS, Frontend development, API development and management, CI/CD, Agile processes

Certifications

- AWS Cloud Practitioner
- Machine Learning with Python
- Python for Data Science and AI
- Applied Data Science
- Enterprise Design Thinking Practitioner